

Scientific Questions for Scientific Thinkers

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Intellectual Development Foundation

Preface

This piece of writing is a guide which consists of generic scientific questions for scientific thinkers. These generic questions are based on the properties which allow us to study anything systematically. The systematic questions can guide students to study anything systematically. For teachers, this provides a Simple Unified Instructional System (SUIS) to guide students to study anything systematically. For students, this is a scientific thinking supplement to any textbook for any science course. Teachers can use this to design science instruction, assignments, and tests. Students can use this to improve their perspective in any domain of science.

Generic scientific thinking skills apply to all sciences. For example, scientific thinkers are clear as to the purpose at hand and the question at issue. They question information, conclusions, and points of view. They strive to be accurate, precise, and relevant. They seek to think beneath the surface, to be logical, and objective. They apply these skills to their reading and writing as well as to their speaking and listening. They apply them in professional and personal life.

When this guide is used as a supplement to the science textbook in multiple courses, students begin to perceive the application of scientific thinking to many domains in everyday life. And if their instructors provide examples of the application of scientific thinking to daily life, students begin to see scientific thinking as a tool for improving the quality of their lives.

If you are a student using this guide, get in the habit of carrying it with you to every science class. Consult it frequently in analyzing and synthesizing what you are learning. Aim for deep internalization of the principles you find in this - until using them becomes second nature.

If successful, this guide will serve faculty, students, and the science program simultaneously. This work is based on the *Simple Unified Instructional System* developed by Intellectual Development Foundation. This piece of writing is not organized into chapters. Every page illustrates how different things can be questioned exhaustively with generic scientific questions.

Excellence in scientific thinking must be cultivated systematically.

Flower

What properties of flower allow us to study it systematically?

Listed below are the properties of flower which allow us to study it systematically.

1. Divisibility

Can flower exhibit divisibility? Yes. Flower has divisibility and it can be divided into things called the parts of flower.

- What are the parts of flower?

2. Comparability

Can flower exhibit comparability? Yes. Flower has comparability and it can be compared to all the other things. Anything which cannot be compared to flower is neither different nor similar to flower.

- What is that which is neither different nor similar to flower?

3. Connectivity

Can flower exhibit connectivity? Yes. Flower has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to flower?

4. Disturbability

Can flower exhibit disturbability? Yes. Flower has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect flower?

5. Reorderability

Can flower exhibit reorderability? Yes. Flower has reorderability and it can be reordered from one form to its other forms.

- What forms are not of flower?

6. Substitutability

Can flower exhibit substitutability? Yes. Flower has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute flower?

7. Satisfiability

Can flower exhibit satisfiability? Yes. Flower has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by flower?



Hai! You know well about flower, but do you have the knowledge to answer the questions about flower?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Calyx

What properties of calyx allow us to study it systematically?

Listed below are the properties of calyx which allow us to study it systematically.

1. Divisibility

Can calyx exhibit divisibility? Yes. Calyx has divisibility and it can be divided into things called the parts of calyx.

- What are the parts of calyx?

2. Comparability

Can calyx exhibit comparability? Yes. Calyx has comparability and it can be compared to all the other things. Anything which cannot be compared to calyx is neither different nor similar to calyx.

- What is that which is neither different nor similar to calyx?

3. Connectivity

Can calyx exhibit connectivity? Yes. Calyx has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to calyx?

4. Disturbability

Can calyx exhibit disturbability? Yes. Calyx has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect calyx?

5. Reorderability

Can calyx exhibit reorderability? Yes. Calyx has reorderability and it can be reordered from one form to its other forms.

- What forms are not of calyx?

6. Substitutability

Can calyx exhibit substitutability? Yes. Calyx has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute calyx?

7. Satisfiability

Can calyx exhibit satisfiability? Yes. Calyx has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by calyx?



Hai! You know well about calyx, but do you have the knowledge to answer the questions about calyx?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Corolla

What properties of corolla allow us to study it systematically?

Listed below are the properties of corolla which allow us to study it systematically.

1. Divisibility

Can corolla exhibit divisibility? Yes. Corolla has divisibility and it can be divided into things called the parts of corolla.

- What are the parts of corolla?

2. Comparability

Can corolla exhibit comparability? Yes. Corolla has comparability and it can be compared to all the other things. Anything which cannot be compared to corolla is neither different nor similar to corolla.

- What is that which is neither different nor similar to corolla?



Hai! You know well about corolla, but do you have the knowledge to answer the questions about corolla?

3. Connectivity

Can corolla exhibit connectivity? Yes. Corolla has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to corolla?

4. Disturbability

Can corolla exhibit disturbability? Yes. Corolla has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect corolla?

5. Reorderability

Can corolla exhibit reorderability? Yes. Corolla has reorderability and it can be reordered from one form to its other forms.

- What forms are not of corolla?

6. Substitutability

Can corolla exhibit substitutability? Yes. Corolla has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute corolla?

7. Satisfiability

Can corolla exhibit satisfiability? Yes. Corolla has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by corolla?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Androecium

What properties of androecium allow us to study it systematically?

Listed below are the properties of androecium which allow us to study it systematically.

1. Divisibility

Can androecium exhibit divisibility? Yes. Androecium has divisibility and it can be divided into things called the parts of androecium.

- What are the parts of androecium?

2. Comparability

Can androecium exhibit comparability? Yes. Androecium has comparability and it can be compared to all the other things. Anything which cannot be compared to androecium is neither different nor similar to androecium.

- What is that which is neither different nor similar to androecium?

3. Connectivity

Can androecium exhibit connectivity? Yes. Androecium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to androecium?

4. Disturbability

Can androecium exhibit disturbability? Yes. Androecium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect androecium?

5. Reorderability

Can androecium exhibit reorderability? Yes. Androecium has reorderability and it can be reordered from one form to its other forms.

- What forms are not of androecium?

6. Substitutability

Can androecium exhibit substitutability? Yes. Androecium has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute androecium?

7. Satisfiability

Can androecium exhibit satisfiability? Yes. Androecium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by androecium?



Hai! You know well about androecium, but do you have the knowledge to answer the questions about androecium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Gynoecium

What properties of gynoecium allow us to study it systematically?

Listed below are the properties of gynoecium which allow us to study it systematically.

1. Divisibility

Can gynoecium exhibit divisibility? Yes. Gynoecium has divisibility and it can be divided into things called the parts of gynoecium.

- What are the parts of gynoecium?

2. Comparability

Can gynoecium exhibit comparability? Yes. Gynoecium has comparability and it can be compared to all the other things. Anything which cannot be compared to gynoecium is neither different nor similar to gynoecium.

- What is that which is neither different nor similar to gynoecium?



Hai! You know well about gynoecium, but do you have the knowledge to answer the questions about gynoecium?

3. Connectivity

Can gynoecium exhibit connectivity? Yes. Gynoecium has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to gynoecium?

4. Disturbability

Can gynoecium exhibit disturbability? Yes. Gynoecium has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect gynoecium?

5. Reorderability

Can gynoecium exhibit reorderability? Yes. Gynoecium has reorderability and it can be reordered from one form to its other forms.

- What forms are not of gynoecium?

6. Substitutability

Can gynoecium exhibit substitutability? Yes. Gynoecium has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute gynoecium?

7. Satisfiability

Can gynoecium exhibit satisfiability? Yes. Gynoecium has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by gynoecium?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Anther

What properties of anther allow us to study it systematically?

Listed below are the properties of anther which allow us to study it systematically.

1. Divisibility

Can anther exhibit divisibility? Yes. Anther has divisibility and it can be divided into things called the parts of anther.

- What are the parts of anther?

2. Comparability

Can anther exhibit comparability? Yes. Anther has comparability and it can be compared to all the other things. Anything which cannot be compared to anther is neither different nor similar to anther.

- What is that which is neither different nor similar to anther?

3. Connectivity

Can anther exhibit connectivity? Yes. Anther has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to anther?

4. Disturbability

Can anther exhibit disturbability? Yes. Anther has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect anther?

5. Reorderability

Can anther exhibit reorderability? Yes. Anther has reorderability and it can be reordered from one form to its other forms.

- What forms are not of anther?

6. Substitutability

Can anther exhibit substitutability? Yes. Anther has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute anther?

7. Satisfiability

Can anther exhibit satisfiability? Yes. Anther has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by anther?



Hai! You know well about anther, but do you have the knowledge to answer the questions about anther?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Stamen

What properties of stamen allow us to study it systematically?

Listed below are the properties of stamen which allow us to study it systematically.

1. Divisibility

Can stamen exhibit divisibility? Yes. Stamen has divisibility and it can be divided into things called the parts of stamen.

- What are the parts of stamen?

2. Comparability

Can stamen exhibit comparability? Yes. Stamen has comparability and it can be compared to all the other things. Anything which cannot be compared to stamen is neither different nor similar to stamen.

- What is that which is neither different nor similar to stamen?

3. Connectivity

Can stamen exhibit connectivity? Yes. Stamen has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to stamen?

4. Disturbability

Can stamen exhibit disturbability? Yes. Stamen has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect stamen?

5. Reorderability

Can stamen exhibit reorderability? Yes. Stamen has reorderability and it can be reordered from one form to its other forms.

- What forms are not of stamen?

6. Substitutability

Can stamen exhibit substitutability? Yes. Stamen has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute stamen?

7. Satisfiability

Can stamen exhibit satisfiability? Yes. Stamen has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by stamen?



Hai! You know well about stamen, but do you have the knowledge to answer the questions about stamen?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Pedice

What properties of pedice allow us to study it systematically?

Listed below are the properties of pedice which allow us to study it systematically.

1. Divisibility

Can pedice exhibit divisibility? Yes. Pedice has divisibility and it can be divided into things called the parts of pedice.

- What are the parts of pedice?

2. Comparability

Can pedice exhibit comparability? Yes. Pedice has comparability and it can be compared to all the other things. Anything which cannot be compared to pedice is neither different nor similar to pedice.

- What is that which is neither different nor similar to pedice?

3. Connectivity

Can pedice exhibit connectivity? Yes. Pedice has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to pedice?

4. Disturbability

Can pedice exhibit disturbability? Yes. Pedice has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect pedice?

5. Reorderability

Can pedice exhibit reorderability? Yes. Pedice has reorderability and it can be reordered from one form to its other forms.

- What forms are not of pedice?

6. Substitutability

Can pedice exhibit substitutability? Yes. Pedice has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute Pedice?

7. Satisfiability

Can pedice exhibit satisfiability? Yes. Pedice has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by pedice?



Hai! You know well about pedice, but do you have the knowledge to answer the questions about pedice?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Ovule

What properties of ovule allow us to study it systematically?

Listed below are the properties of ovule which allow us to study it systematically.

1. Divisibility

Can ovule exhibit divisibility? Yes. Ovule has divisibility and it can be divided into things called the parts of ovule.

- What are the parts of ovule?

2. Comparability

Can ovule exhibit comparability? Yes. Ovule has comparability and it can be compared to all the other things. Anything which cannot be compared to ovule is neither different nor similar to ovule.

- What is that which is neither different nor similar to ovule?

3. Connectivity

Can ovule exhibit connectivity? Yes. Ovule has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to ovule?

4. Disturbability

Can ovule exhibit disturbability? Yes. Ovule has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect ovule?

5. Reorderability

Can ovule exhibit reorderability? Yes. Ovule has reorderability and it can be reordered from one form to its other forms.

- What forms are not of ovule?

6. Substitutability

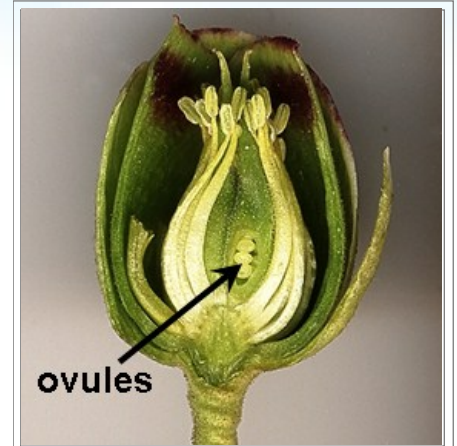
Can ovule exhibit substitutability? Yes. Ovule has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute ovule?

7. Satisfiability

Can ovule exhibit satisfiability? Yes. Ovule has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by ovule?



Hai! You know well about ovule, but do you have the knowledge to answer the questions about ovule?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?

Pollen

What properties of pollen allow us to study it systematically?

Listed below are the properties of pollen which allow us to study it systematically.

1. Divisibility

Can pollen exhibit divisibility? Yes. Pollen has divisibility and it can be divided into things called the parts of pollen.

- What are the parts of pollen?

2. Comparability

Can pollen exhibit comparability? Yes. Pollen has comparability and it can be compared to all the other things. Anything which cannot be compared to pollen is neither different nor similar to pollen.

- What is that which is neither different nor similar to pollen?

3. Connectivity

Can pollen exhibit connectivity? Yes. Pollen has connectivity and it can be connected to all the other things which hold it.

- What is that which cannot be connected to pollen?

4. Disturbability

Can pollen exhibit disturbability? Yes. Pollen has disturbability and it can be disturbed (affected) by the things which can influence it.

- What is that which cannot affect pollen?

5. Reorderability

Can pollen exhibit reorderability? Yes. Pollen has reorderability and it can be reordered from one form to its other forms.

- What forms are not of pollen?

6. Substitutability

Can pollen exhibit substitutability? Yes. Pollen has substitutability and it can be substituted by the things which qualify to substitute it.

- What is that which cannot qualify to substitute pollen?

7. Satisfiability

Can pollen exhibit satisfiability? Yes. Pollen has satisfiability and it can satisfy those which require it.

- What is that which cannot be satisfied by pollen?



Hai! You know well about pollen, but do you have the knowledge to answer the questions about pollen?

What will you do if no thing has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability?



Anything which one can identify has divisibility, comparability, connectivity, disturbability, reorderability, substitutability, and satisfiability!